

Slurry Based Mullite Coatings

Project Lead

Oak Ridge National
Laboratory (ORNL)
Oak Ridge, TN

Description

The purpose of this program is to develop ceramic coatings with enhanced corrosion resistance through improvements in the composition and processing of the coating. Processing innovations will focus on aqueous coating development including such techniques as spray coating, dip coating and vacuum infiltration. Approaches to coatings, such as mullite, that have shown good corrosion resistance and materials that form scales other than silica will be evaluated. Candidate materials will be exposed in facilities at ORNL, the DOE National Energy Technology Center, and the University of North Dakota Energy and Environmental Research Center. All specimens will be characterized at ORNL to identify the most promising materials for specific applications.

Duration: 10/1/00 - 9/30/01

Product Support Areas

Gasification Technologies	Combustion Technologies	Sequestration	Environmental & Water Resources	Advanced Turbine & Engines	Fuel Cells
					



Project:
Code: ORNL-1B

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